

RADIO NETWORK TEST ANALYSIS SYSTEM

ABSTRACT OF THE DISCLOSURE

Optimization of a cellular network is facilitated by an apparatus that performs drive
 5 test measurements of a cellular network to identify co-channel interference. The co-channel
 interference is identified by measuring the signal strengths at various locations within a cell
 sector and analyzing the recorded information. A key aspect of the invention is synthesizing
 the received signals to identify the cellular transmitters originating the signals. If signal
 energy is detected from more than one cellular transmitter on a single frequency, the co-
 10 channel interference is identified. This process is particular well suited within a GSM
 cellular system by detecting the transmission of forward control channel messages and using
 the information within the forward control channel messages to identify the origination
 cellular transmitters.

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